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Some plants of New York

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Since the publication by Muenscher and Clausen (1934) of some notes on the flora of northern New York, further collecting in various parts of the state has yielded a number of interesting items which are here listed with annotations. These notes may be considered supplemental to those of 1934, also to the Biological Survey Reports by Muenscher (1935, 1936, & 1937) and McVaugh (1938). Names of collectors most frequently cited are abbreviated as follows: *C*, R. T. Clausen; *Cu*, O. F. Curtis, Jr.; *M*, W. C. Muenscher; *S*, S. J. Smith; *T*, Harold Trapido; and *W*, W. C. Wilson. Unless otherwise noted, all collections are in the herbarium of the Department of Botany, Cornell University.

ISOETES TUCKERMANNI A.Br. Reported by House (1933) from Camp Riverdale, Hamilton Co., and from the south inlet of Titus Lake, Franklin Co.; also by Muenscher (1930, 1933, & 1935) from Lake Champlain, Clinton Co.; Harris Lake, Essex Co.; Upper Saranac Lake Outlet, Franklin Co.; Piseco and Catlin Lakes, Hamilton Co.; and Chatiemac Lake and Valentine Pond, Warren County. The writer has examined material from all localities cited by Muenscher except Upper Saranac Lake Outlet. He also has studied the following additional collections: Middle Saranac Lake, Franklin Co., 1929, *M*, *Manning*, and *Maguire 41*; Lake Neatahwanta, Fulton, Oswego Co., 1887, *W. W. Rowlee*; and Three Mile Bay, Oneida Lake, Oswego Co., 1927, *M 16804*.

As observed by the writer in the Stoner Lakes, plants of *I. Tuckermanni* appeared much like small specimens of *I. echinospora*, but had the leaves decidedly recurved. The megaspores vary from being irregularly reticulated to having jagged crests.

THUJA OCCIDENTALIS L. Steuben Co.: Atlanta, 1937, *C & T 2695*; Wayland, 1924, *M 15185*. Reported by House (1924) as

rare southward and westward. Common on the Ontario Plain and in swamps of the Mohawk drainage, but in the herbarium of Cornell University represented from the southern tier of counties only by the collections cited.

This species forms dense stands on the marly flats along the Cohocton River. Associated with it are *Abies balsamea* (C & T 2697) and *Larix laricina* (C & T 2692). In the moss under the white cedars, *Mitella nuda* (C & T 2691) is frequent. Other associated species are *Carex flava*, *Salix candida*, *Myrica Gale*, and *Viburnum Opulus*.

POTAMOGETON BUPLEUROIDES Fernald. Schuyler Co.: in shallow water at southeast corner of Waneta Lake, 1934, C 1321.

In the Cornell Herbarium, this species is otherwise represented from south-central New York only from Cayuga and Seneca Lakes. It was neither collected by McVaugh (1938) in the Chemung and Allegheny watersheds, nor by Muenscher (1936) in the Susquehanna watershed.

ZANNICHELLIA PALUSTRIS L. Steuben Co.: Cohocton River about one mile west of Atlanta, 1937, C & T 2687. Reported as very local in the Delaware and Susquehanna watersheds by Muenscher (1936) and from only one stream, Tributary 22 of the Chemung River south of Elmira, by McVaugh (1938).

POA NEMORALIS L. Westchester Co.: dry wooded ridge, Crestwood, Yonkers, 1935, R. Osgood & C 1759. Reported by Taylor (1915) as a waif, by Wiegand and Eames (1926) as scarce in the Cayuga Lake Basin, and by House (1924) as rare as an introduced plant in waste places or on ballast, Staten Island and Yates County.

POA SALTUENSIS Fernald & Wiegand. Tompkins Co.: Caroline Depot, 1935, C 2161 & 2162; Ringwood, 1935, C & E. *Lawn* 2138.

The three collections cited are of interest because they demonstrate the unsatisfactory nature of the anther and ligule characters which have been used, along with the nature of the flowering glumes, to separate *P. saltuensis* from *P. debilis*. Fernald and Wiegand (1918) describe the anthers of *P. debilis* as 0.6–0.8 mm. long and the longer cauline ligules as 2–2.5 mm. long, while for *P. saltuensis* they give measurements for anthers as 1–1.2 mm. long and for ligules as 0.3–1.5 mm. long. In C

2162 the anthers are 0.8 mm. long, but the ligules only 1 mm.; in *C* 2161, the anthers are intermediate, 1 mm., and the ligules likewise 1 mm.; while in *C* 2138, the anthers are 1.2 mm. and the upper ligules 2 mm. In view of this situation, it seems that the relationships of these two species require careful reviewing, particularly since the character afforded by the flowering glumes seems not always satisfactory.

MUHLENBERGIA UNIFLORA (Muhl.) Fernald. Ulster Co.: on cliff, Shawangunk Mountain, near Maratanza Lake, 1935, *M* & *Cu* 5156. Although known from numerous localities in the north, also from Westchester Co. and Long Island, this appears to be the first record for the region of the Catskill Mountains.

PANICUM LINEARIFOLIUM var. *WERNERI* (Scribn.) Fernald. Suffolk Co.: edge of sandy field near Patchogue, 1925, *M* 16042. Ulster Co.: scrub oak thicket among rocks northeast of Ashokan Reservoir, 1925, *M* 16043. Westchester Co.: in sandy soil of vacant lot, Tuckahoe, 1935, *G. Voetsch* & *C* 1753. Designated by Taylor (1915) as rare and local in the New York region.

CAREX CASTANEA Wahlenb. Tioga Co.: edge of thicket along road two miles west of Richford, 1937, *C* & *S* 2633. Although reported by House (1934) as locally abundant across the northern part of the state and in central New York, it is not recorded by Clute (1898) or by Wiegand and Eames (1926), and the southernmost station listed by House is Peterboro in Madison County.

This represents the first collection from the southern tier of counties.

✓ *Carex complanata* ssp. *hirsutella* (Mackenzie) n. comb. (*Carex hirsutella* Mackenzie in Bull. Torrey Club 50: 349. 1923) Schuyler Co.: field on east side of Waneta Lake, 1934, *C* 1339. Tompkins Co.: Bull Hill, Newfield, 1935, *C* 2184. Reported by Wiegand and Eames (1926) as scarce (7 stations) in the Cayuga Lake Basin and by Clute (1898) as rare at Barton and not frequent at Elmira.

Study of the series of specimens of *Carex complanata* and of *C. hirsutella* available in the herbarium at Cornell University indicates that these two populations intergrade in the area where their ranges overlap, particularly in Virginia, and in western North Carolina and Georgia. Since the plant with glabrate leaves with revolute margins is the dominant form on

the southeastern coastal plain, while the plant with pubescent, flat leaves is the only one represented in the north, it seems best to consider these two geographically correlated races as subspecies.

CAREX CUMULATA (Bailey) Mackenzie. Fulton Co.: Gloversville, *Ollson*. Ulster Co.: bog near Maratanza Lake, 1935, *M & Cu 5164*. Cited by Mackenzie (1922) from Albany, Dutchess, Oneida, and Washington Counties.

CYPERUS FERAX Rich. Bronx Co.: sandy beach, City Island, 1918, *A. Gershoy*, Greene Co.: on sand bar in Hudson River between Hudson and Athens, 1935, *M & C 4366*. Montgomery Co.: Yosts, 1935, *M & C 4605*. Onondaga Co.: Salina, *G. W. Clinton*; Syracuse salt marsh, 1902, *K. M. Wiegand 16*. Queens Co.: wet sand in salt marsh, Jamaica, 1929, *W. C. Ferguson 8058*. Reported by House (1924) only from Suffolk Co., but by Wiegand and Eames (1926) as locally frequent in the Cayuga Lake Basin.

ELEOCHARIS OBTUSA var. *JEJUNA* Fernald. (See Svenson in *Rhodora 31: 215-216*. 1929.) Tioga Co.: edge of small, muddy pool near Spencer Lake, 1935, *C 2050*.

As Svenson (l. c.) states, this appears to be an ecological phase of the species and probably does not merit nomenclatorial recognition. The collection cited is apparently the first for New York.

STENOPHYLLUS CAPILLARIS (L.) Britton. Cayuga Co.: Farleys, 1938, *C & S 3521*; Willets, 1927, *M & P. R. Burkholder 16925*. Cortland Co.: Chicago (Gracie) Station, 1929, *K. M. Wiegand 17359*. Tompkins Co.: Varna, 1935, *C 2048*. Although reported from only one locality by Wiegand and Eames (1926), this species has greatly increased in recent years and now is widespread and fairly common in the cinders along railroads throughout the Cayuga Lake region.

XYRIS MONTANA H. Ries. Sullivan Co.: floating sphagnum bog, Amber Lake, 1935, *M & Cu 5175*. Not recorded from southern New York by Taylor (1915) or House (1924).

UVULARIA PERFOLIATA L. Ontario Co.: Bristol Springs, 1938, *C 3432*.

This collection is interesting because it represents a variegated foliage variety. All of the plants in a large patch on the south slope of the ravine south of Bristol Springs were varie-

gated, but farther up and down the ravine the plants were normal.

TRILLIUM GRANDIFLORUM (Michx.) Salisb. Ontario Co.: Bristol Springs, 1938, *C* 3438.

In an oak-chestnut woods on the summit of Gannet Hill, $1\frac{1}{2}$ miles west of Bristol Springs, about every eighth White Trillium was abnormal. Commonest variations were petals with green median bands, long stalked leaves, and a tendency towards narrower, longer leaves. It is of interest that usually where these abnormalities occur as here, at Big Gully in Cayuga Co. and elsewhere, they are frequent in a small area, while for miles around, only normal individuals will be found.

URTICA URENS L. Schenectady Co.: in rich soil on farm 5 miles east of Schenectady, 1935, *M* 5193. Reported by House (1924) from Long Island and from Rensselaer and Livingston Counties.

POLYGONUM CILINODE Michx. Tioga Co.: woodland slope about four miles northwest of Richford, 1936, *W. G. Norris & C* 2208. Not listed from the Cayuga Lake Basin by Wiegand and Eames (1926), but reported by Clute (1898) as rare in Chenango and Susquehanna Counties.

OXYBAPHUS NYCTAGINEUS (Michx.) Sweet. Tioga Co.: along railroad north of North Spencer, 1935, *C* 2250; also 1937, *C & T* 2661. Tompkins Co.: Ithaca, 1932-35, *M* 17860, 18529, & 18828. Now also represented in the herbarium of Cornell University by specimens from Albany, Greene, and Onondaga Counties. Previously reported by Muenscher and Clausen (1934) from three stations in Montgomery Co., by Zenkert (1934) from Erie County, and by House (1924) as adventive in western New York, near New York City, and at Greendale, Columbia County.

CLEMATIS VERTICILLARIS DC. Ontario Co.: exposed ledges of High Point northwest of Naples, 1935, *W & C* 1612. Reported by House (1924) to be rare and local in the western part of the state.

ALYSSUM ALYSSOIDES L. Cortland Co.: gravel bar opposite Glen Haven, Skaneateles Lake, 1932, *K. M. Wiegand* 17889. Genesee Co.: limestone barrens, Le Roy, 1935, *M* 18858. Also represented in the herbarium of Cornell University by specimens from Albany, Onondaga, and Suffolk Counties. Reported by

House (1924) from Ithaca, several localities in Monroe Co., and about New York City.

ALYSSUM GEMONENSE Linn. Oneida Co.: on cliffs in gorge at Trenton Falls, 1934, *M & C* 4653; also 1935, *M* 18859.

This probably constitutes the first record for this species in the state. Although it must have been introduced, it seems well established on the limestone ledges on the west side of the gorge.

ARABIS LYRATA L. Ontario Co.: exposed ledges of High Point northwest of Naples, 1935, *W & C* 1625. Reported by House (1924) as rare and local in western New York.

SEDUM SARMENTOSUM Bunge. Westchester Co.: Crestwood, Yonkers, 1935, *R. Osgood & C* 1901.

This cultivated species seemed established in rich soil in a dry woodland at Crestwood. The writer has also found it naturalized in Passaic County, N. J. and a report has reached him that it is established at one station in Cincinnati, Ohio.

GEUM CANADENSE var. GRIMESII Fernald & Weatherby. Tioga Co.: roadside ditch two miles west of Richford, 1938, *S* 964 (Bailey Hortorium).

This represents the first collection of var. *Grimesii* in New York. The upper internodes of the styles are very sparingly short pubescent and the carpels are hispid above, glabrous below.

GEUM VIRGINIANUM L. Tioga Co.: Newark Valley, 1938, *C & S* 3495; two miles west of Richford, 1938, *S* 999 (Bailey Hortorium). This is not listed by Clute (1898) or by Wiegand and Eames (1926).

RUBUS ILLECEBROSUS Focke. Schenectady Co.: a weed in grass, 1417 Union Street, Schenectady, 1935, *M & W. T. Winne* 5235. Cayuga Co.: waste land, Moravia, 1934, *J. Mosher* 18571. This is not listed by House (1924).

LATHYRUS PRATENSIS L. Otsego Co.: in low fields and along roadside, Richfield Springs, 1935, *M & Cu* 5245. This species, which is not listed by House (1924), is also represented in the herbarium of Cornell University from Remsen, Oneida Co., *D. M. Griffiths* 14807, and from Cooperstown, Otsego Co., *F. L. Barlow* 10193.

FLOERKEA PROSERPINACOIDES Willd. Schuyler Co.: ledges one mile south of southeast corner of Seneca Lake, 1932, *K. M.*

Wiegand 18047. Yates Co.: in deep ravine of Plum Point Creek, west of Himrod, 1936, *W & C 2113*. The writer also has observed this at Wilseyville, Tioga County, in the Susquehanna watershed. Reported by Millspaugh (1887) from Cayuta Creek, as infrequent by House (1924), and as scarce in the Cayuga Lake Basin by Wiegand and Eames (1926).

EUPHORBIA DENTATA Michx. Columbia Co.: along railroad tracks, Hudson, 1934, *M & C 4676*. Onondaga Co.: Syracuse, 1902, *K. M. Wiegand 4*. Reported by House (1924) only from Despatch, Monroe County.

VIOLA ARVENSIS Murr. This species is now a common field and roadside weed in parts of central and western New York. Recent collections have been made in Chemung, Ontario, Schuyler, Tioga, and Tompkins Counties.

PIMPINELLA SAXIFRAGA L. Fulton Co.: common in grasslands on both sides of road for $\frac{1}{2}$ mile north of Dolgeville, 1934, *M & C 4697*. Reported from the eastern and southern sections of the state by House (1924).

RHODODENDRON MAXIMUM L. Chenango Co.: west side of deep swamp north of Mud Pond, Union Valley, 1937, *C & J. L. Edwards, 2602*. Reported as rare by Clute (1898) and not listed from this locality.

PRIMULA MISTASSINICA var. *NOVEBORACENSIS* Fernald. This recently has been obtained again at two historical stations: gorge of Fish Creek, Taberg, Oneida Co., 1935, *M 18969*; dripping ledges at top of talus slope on north side of large ravine on west side of Hammondsport, Steuben Co., 1935, *W & C 1687*.

PRIMULA POLYANTHA Mill. Schuyler Co.: apparently escaped from cultivation and established in field by roadside on west side of Connecticut Hill, 1936, *W & C 2114*.

POLEMONIUM REPTANS L. Tioga Co.: rich alluvial woods on east side of Doolittle Creek, $1\frac{1}{4}$ miles north of East Candor, 1938, *C, T, & J. T. Baldwin, Jr., 3415*. Reported by Clute (1898) as "found sparingly throughout our range," but in the herbarium of Cornell University there are no specimens from east of this station.

ARTEMISIA FRIGIDA Willd. Along Cayuga Inlet, Ithaca, 1934, *M 18651*; also 1935, *M 19014*. Otherwise reported only from Rochester, House (1934).

ASTER JUNCEUS Ait. Sullivan Co.: in peat bog, Highland Lake, 1935, *M & Cu* 5321. House (1934) gives the range southward to Columbia, Greene, Tompkins, and Tioga Counties.

This seems to be the first collection of the species in Sullivan County.

ASTER PTARMICOIDES (Nees) T. & G. Saratoga Co.: along Mohawk River at Waterford, 1934, *M & C* 4747, Designated by House (1924) as infrequent or rare and reported only from Washington Co. in eastern New York.

EUPATORIUM RUGOSUM Houtt. Oneida Co.: gorge of East Branch of Fish Creek, Taberg, 1935, *M* 19020.

This collection is of interest since the leaves of the young plants are dark purple. To the writer it seems undesirable to further clutter taxonomic literature with Latin names for such minor variations which may appear sporadically throughout a species population and which probably are of slight survival value.

HIERACIUM FLORENTINUM All. Tompkins Co.: sandy alluvium in valley of Salmon Creek about two miles north of Ludlowville, 1936, *A. Miller & C* 2219. Although reported as rare by Wiegand and Eames (1926), who list only one station in the Cayuga Lake Basin, this species is now becoming more common in that area.

HYPOCHAERIS RADICATA L. Bronx Co.: waste ground, Throgs Neck, 1935, *R. Osgood & C* 2014 & 2015. This is also represented in the herbarium of Cornell University by specimens from Erie, Oneida, Onondaga, Schuyler, Suffolk, and Tompkins Counties.

This weed is truly common in waste places on the east side of the Bronx. Both Taylor (1915) and House (1924) report it as rare or infrequent in the state.

The writer wishes to express his thanks to Professor W. C. Muenscher for permission to report on various of his collections represented in the herbarium of Cornell University.

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